

Title (en)

MOBILE SENSE THROUGH THE WALL RADAR SYSTEM

Title (de)

MOBILES WANDDURCHGÄNGIGES RADARSYSTEM

Title (fr)

DÉTECTION MOBILE GRÂCE À UN SYSTÈME DE RADAR À DÉTECTION À TRAVERS LES MURS

Publication

EP 2462462 B1 20131211 (EN)

Application

EP 10762778 A 20100803

Priority

- US 46237809 A 20090803
- US 2010044309 W 20100803

Abstract (en)

[origin: US2011025546A1] A method and apparatus for sensing a target through a wall or obstruction by a Moving Target Indicator (MTI) radar sensor. In an exemplary embodiment, a series of radar pulses are transmitted at frequencies less than about 5 GHz. Radar return signals are received at a plurality of receive antenna array subapertures. The radar return signals are processed by a digital beamformer to form multiple beams. Target detection processing detects moving and stationary targets through a plurality of parallel target detection signal processing paths.

IPC 8 full level

G01S 7/292 (2006.01); **G01S 13/534** (2006.01); **G01S 13/536** (2006.01); **G01S 13/88** (2006.01)

CPC (source: EP US)

G01S 7/2923 (2013.01 - EP US); **G01S 13/534** (2013.01 - EP US); **G01S 13/536** (2013.01 - EP US); **G01S 13/888** (2013.01 - EP US)

Cited by

CN110045343A; CN107683422A; CN111796277A; US10359510B2; US2018143297A1; US10768276B2; US11061127B2

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DOCDB simple family (publication)

US 2011025546 A1 20110203; **US 8169362 B2 20120501**; EP 2462462 A1 20120613; EP 2462462 B1 20131211; IL 217908 A0 20120329; WO 2011017371 A1 20110210; WO 2011017371 A8 20120301

DOCDB simple family (application)

US 46237809 A 20090803; EP 10762778 A 20100803; IL 21790812 A 20120202; US 2010044309 W 20100803